Clarion

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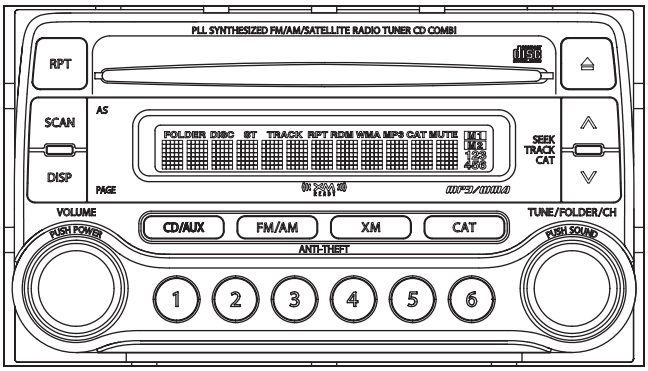
Service Manual



SUZUKI Automobile Genuine
AM/FM TUNER CD COMBI

Model **PS-2760D**

(Genuine No. 39101-54J00-000)

SPECIFICATIONS

Radio section

Tuning system:	PLL frequency synthesizer system	
Receive range:	AM	530kHz to 1710kHz
	FM	87.75MHz to 107.9MHz
Intermediate frequency:	AM	10.71 +0.2 / -0.2 MHz (1st) 450 +3 / -3 MHz (2nd)
	FM	10.7 +0.2 / -0.2 MHz
Quieting sensitivity:	AM	Less than 34dBu (at 20dB S/N)
	FM	Less than 15dBu (at 30dB S/N)
Auto tuning stop sensitivity:		
	AM	32 +6/-6 dBu (DX)
	FM	24 +6/-6 dBu (DX)

CD section

Disc:	12cm Disc
Separation:	More than 55dB
S.N ratio:	More than 70dB (JIS-A)

MP3 / WMA mode

MP3 Sampling rate:	11.025kHz to 48kHz
MP3 bit rate:	8kbps to 320kbps/VBR
WMA bit rate:	48kbps to 192kbps
Logical format:	ISO9660 level 1,2 JOLIET or Romeo

General

Rated Voltage:	DC 13.2V
Tone control:	BASS 7 +12 / -12 dB (100Hz) TREBLE 0 +12 / -12 dB (10Hz)
Output:	More Than 16Wx4 (Max Practical) 25Wx4 (Max Output)
Back up consumption:	Less than 12mA
Dimensions(mm):	178(W)x100(H)x155.3(D)
Weight:	1.8kg

NOTE

* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
* Specifications and design are subject to change without notice for further improvement.
* Use only compact discs bearing the COMPACT disc DIGITAL AUDIO mark. Do not play heart-shaped, octagonal, or other specially shaped compact discs. some CDs recorded in CD-R/CD-RW mode may not be usable.
* This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.

COMPONENTS

PS-2760D-A

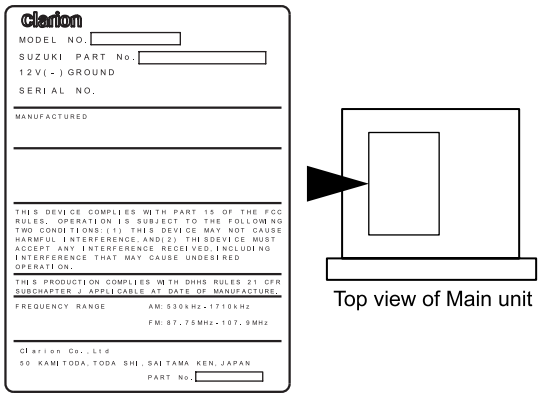
Main unit	————	1

CAUTION

Use of controls, adjustments, or performance of procedures other than those specified herein, may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.

(for U.S.A. model)


Clarion
MODEL NO.
SUZUKI PART No.
12V(-)GROUND
SERIAL NO.
MANUFACTURED
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.
THIS PRODUCTION COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.
FREQUENCY RANGE
AM: 530kHz-1710kHz
FM: 87.75MHz-107.9MHz
Clarion Co., Ltd.
50 KAMITODA, TODA SHI, SAITAMA KEN, JAPAN
PART No.

Top view of Main unit

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron, make sure that the iron tip temperature is around 270 °C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.
8. Cautions in checking that the optical pickup lights up.
   The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
9. Cautions in handling the optical pickup
   The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electric ity before handling the optical pickup.

9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage.
After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it, its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens

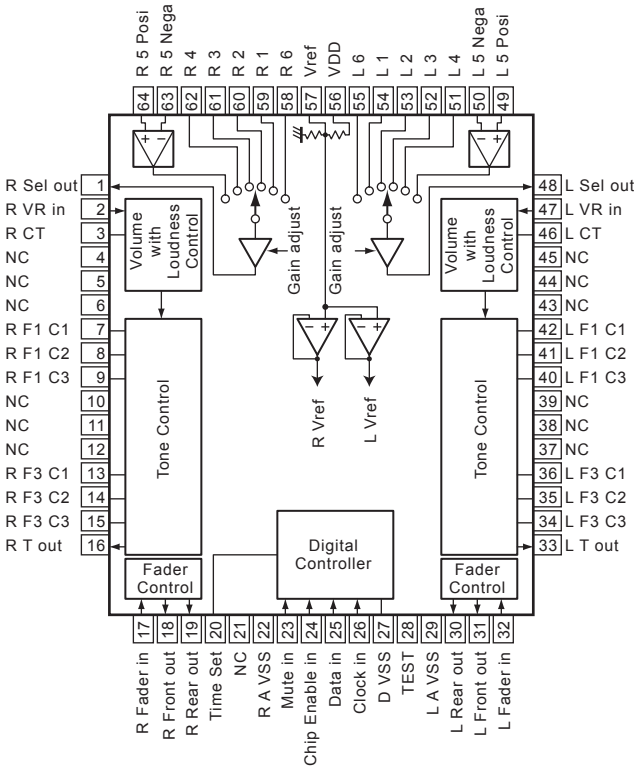
Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

EXPLANATION OF IC

Main section

051-5027-10 LC75412WH-UC

Electric volume with Tone Controller



051-6052-20 LC75817NTRH8720-UC-E

LCD Driver with Key Scan

Terminal Description

pin 1: KS OUT 6 : O : Key scan output.
pin 2: KS OUT 5 : O : Key scan output.
pin 3: KS OUT 4 : O : Key scan output.
pin 4: KS OUT 3 : O : Key scan output.
pin 5: KS OUT 2 : O : Key scan output.
pin 6: KS OUT 1 : O : Key scan output.
pin 7: COMMON 1 : O : The common signal output.
pin 8: COMMON 2 : O : The common signal output.
pin 9: COMMON 3 : O : The common signal output.
pin 10: COMMON 4 : O : The common signal output.
pin 11: COMMON 5 : O : The common signal output.
pin 12: COMMON 6 : O : The common signal output.
pin 13: COMMON 7 : O : The common signal output.
pin 14: COMMON 8 : O : The common signal output.
pin 15: COMMON 9 : O : The common signal output.
pin 16: SEG 60/ COM10 : O : The segment signal output./The common signal output.
pin 17: SEG 59 : O : The segment signal output.
pin 18: SEG 58 : O : The segment signal output.
pin 19: SEG 57 : O : The segment signal output.
pin 20: SEG 56 : O : The segment signal output.
pin 21: SEG 55 : O : The segment signal output.
pin 22: SEG 54 : O : The segment signal output.
pin 23: SEG 53 : O : The segment signal output.
pin 24: SEG 52 : O : The segment signal output.
pin 25: SEG 51 : O : The segment signal output.
pin 26: SEG 50 : O : The segment signal output.
pin 27: SEG 49 : O : The segment signal output.
pin 28: SEG 48 : O : The segment signal output.
pin 29: SEG 47 : O : The segment signal output.
pin 30: SEG 46 : O : The segment signal output.
pin 31: SEG 45 : O : The segment signal output.
pin 32: SEG 44 : O : The segment signal output.
pin 33: SEG 43 : O : The segment signal output.
pin 34: SEG 42 : O : The segment signal output.
pin 35: SEG 41 : O : The segment signal output.
pin 36: SEG 40 : O : The segment signal output.
pin 37: SEG 39 : O : The segment signal output.
pin 38: SEG 38 : O : The segment signal output.
pin 39: SEG 37 : O : The segment signal output.
pin 40: SEG 36 : O : The segment signal output.
pin 41: SEG 35 : O : The segment signal output.
pin 42: SEG 34 : O : The segment signal output.
pin 43: SEG 33 : O : The segment signal output.
pin 44: SEG 32 : O : The segment signal output.
pin 45: SEG 31 : O : The segment signal output.
pin 46: SEG 30 : O : The segment signal output.
pin 47: SEG 29 : O : The segment signal output.
pin 48: SEG 28 : O : The segment signal output.
pin 49: SEG 27 : O : The segment signal output.
pin 50: SEG 26 : O : The segment signal output.
pin 51: SEG 25 : O : The segment signal output.
pin 52: SEG 24 : O : The segment signal output.
pin 53: SEG 23 : O : The segment signal output.
pin 54: SEG 22 : O : The segment signal output.
pin 55: SEG 21 : O : The segment signal output.
pin 56: SEG 20 : O : The segment signal output.
pin 57: SEG 19 : O : The segment signal output.
pin 58: SEG 18 : O : The segment signal output.
pin 59: SEG 17 : O : The segment signal output.
pin 60: SEG 16 : O : The segment signal output.
pin 61: SEG 15 : O : The segment signal output.
pin 62: SEG 14 : O : The segment signal output.
pin 63: SEG 13 : O : The segment signal output.
pin 64: SEG 12 : O : The segment signal output.
pin 65: SEG 11 : O : The segment signal output.
pin 66: SEG 10 : O : The segment signal output.
pin 67: SEG 9 : O : The segment signal output.
pin 68: SEG 8 : O : The segment signal output.
pin 69: SEG 7 : O : The segment signal output.
pin 70: SEG 6 : O : The segment signal output.
pin 71: SEG 5 : O : The segment signal output.
pin 72: SEG 4 : O : The segment signal output.
pin 73: SEG 3 : O : The segment signal output.
pin 74: SEG 2 : O : The segment signal output.
pin 75: SEG 1 : O : The segment signal output.
pin 76: DI : IN : Serial data input.
pin 77: CLOCK : IN : Clock pulse input.
pin 78: CE : IN : Chip enable signal input.
pin 79: DO : O : Serial data output.
pin 80: INHIBIT : IN : The inhibit command input.
pin 81: OSC IN : IN : Oscillation input.
pin 82: OSC OUT : O : Oscillation output.
pin 83: CN VSS : IN : Connect to VSS.
pin 84: VSS : - : Negative supply voltage.
pin 85: V LCD 4 : - : 0/4 bias voltage for the LCD.
pin 86: V LCD 3 : - : 1/4 bias voltage for the LCD.
pin 87: V LCD 2 : - : 2/4 bias voltage for the LCD.
pin 88: V LCD 1 : - : 3/4 bias voltage for the LCD.
pin 89: V LCD 0 : O : 4/4 bias voltage for the LCD.
pin 90: V LCD : - : Positive supply voltage for the LCD driver.
pin 91: VDD : - : Positive supply voltage.
pin 92: GPO 4 : O : The general purpose output.
pin 93: GPO 3 : O : The general purpose output.
pin 94: GPO 2 : O : The general purpose output.
pin 95: GPO 1 : O : The general purpose output.
pin 96: KS IN 5 : IN : Key scan input.
pin 97: KS IN 4 : IN : Key scan input.
pin 98: KS IN 3 : IN : Key scan input.
pin 99: KS IN 2 : IN : Key scan input.
pin100: KS IN 1 : IN : Key scan input.

051-6212-18 LC72191JM-UC-TLM PLL Frequency Synthesizer

Terminal Description

pin 1: X IN : IN : Crystal connection.
pin 2: CE : IN : Chip enable signal input.
pin 3: DI : IN : Serial data input.
pin 4: CLOCK : IN : The clock pulse input.
pin 5: DO : O : Serial data output.
pin 6: SYNC : O : Clock pulse output.
pin 7: SHIFT IN 0 : IN : The input terminal of internal shift resister.
pin 8: SHIFT IN 1 : IN : The input terminal of internal shift resister.
pin 9: DO 0 : O : Parallel data output.
pin 10: DO 1 : O : Parallel data output.
pin 11: DO 2 : O : Parallel data output.
pin 12: DO 3 : O : Parallel data output.
pin 13: DO 4 : O : Parallel data output.
pin 14: DO 5 : O : Parallel data output.
pin 15: L CTR : IN : The input terminal of internal general counter.
pin 16: H CTR : IN : The input terminal of internal general counter.
pin 17: DO 6 : O : Parallel data output.
pin 18: AM OSC IN : IN : The input terminal of the internal counter for AM OSC (Local Oscillation).
pin 19: FM OSC IN : IN : The input terminal of the internal counter for FM OSC (Local Oscillation).
pin 20: VDD : - : Positive supply voltage.
pin 21: PD 1 : O : PLL error output.
pin 22: PD 2 : O : PLL error output.
pin 23: VSS : - : Negative supply voltage.
pin 24: X OUT : O : Crystal connection.

052-3196-00 M30624MGA-630GP System Controller

Terminal Description

pin 1: MODE 2 : IN : Mode select input. Refer Table 1.
pin 2: CAR SEL : IN : A type-of-a-car distinction input port. H=YT4, L=Y8W
pin 3: AREA 1 : IN : The destination setting input. Refer Table 2.
pin 4: AREA 2 : IN : The destination setting input. Refer Table 2.
pin 5: CLK SEL : IN : The initial setting input for the clock.
pin 6: BYTE : IN : The data length selection(8bit/16bit).
pin 7: CN VSS : IN : Connect to VSS via a resistor.
pin 8: ANT ON : O : Antenna ON command output.
pin 9: DX/LO : O : DX/Local select signal output.
pin 10: RESET : IN : Reset signal input.
pin 11: X out : O : Crystal connection.
pin 12: GND : - : Ground.
pin 13: X in : IN : Crystal connection.
pin 14: VDD : - : Positive voltage supply.
pin 15: NU : - : Not in use.
pin 16: BU DET : IN : Backup detection signal input.
pin 17: ACC DET : IN : ACC detection signal input.
pin 18: CATS DET : IN : The backup voltage detection for CATS.
pin 19: 27pin connect : IN : Connect to 27pin.
pin 20: ILL ON : IN : Illumination ON signal input.
pin 21: SYS ON : O : System ON signal output.
pin 22: BEEP : O : Beep out.
pin 23: TIME BASE : IN : Time-base pulse input.
pin 24: PLL DI : IN : Serial data input from the PLL IC.
pin 25: NAVI MUTE : O : Muting signal output to suppress the noise without Navigation sound interrupting.
pin 26: AMP ON : O : Audio power amplifier ON signal output.
pin 27: RX : IN : Serial data input.
pin 28: TX : O : Serial data output.
pin 29: GS1-SO/IX6-TX : O : 1-CD Serial data output. 6-CD Serial data output.
pin 30: GS1-CK/IX6-RX : I/O : 1-CD clock output. 6-CD Serial data input.
pin 31: AMP MUTE : O : Muting signal output to the Audio Power Amplifier.
pin 32: ST : IN : The stereo flag input.
pin 33: SYS ACC : O : ACC detect signal output.
pin 34: EEP DI : IN : The serial data input from the EEP-ROM.
pin 35: EEP DO : O : The serial data output to the EEP-ROM.
pin 36: EEP CS : O : The chip select signal output to the EEP-ROM.
pin 37: EEP CK : O : The clock pulse output to the EEP-ROM.
pin 38: CATS TP : IN : Pll up.
pin 39: NU : - : Not in use.
pin 40: NU : - : Not in use.
pin 41: NU : - : Not in use.
pin 42: NU : - : Not in use.
pin 43: NU : - : Not in use.
pin 44: NU : - : Not in use.
pin 45: NU : - : Not in use.
pin 46: NU : - : Not in use.
pin 47: EEP TP Out : O : Diagnosis output for EEP-ROM.
pin 48: IO TP Out : O : Diagnosis output for I/O PORT.
pin 49: MD 8V : O : Power supply control output terminal for MD mechanisms.
pin 50: CD 5V : O : 5V power supply ON signal output for CD.
pin 51: CD 8V : O : CD motor power supply control output or the power supply control output terminal for photo-sensors, H=CD ON, L=CD OFF.
pin 52: MD LD : IN : Disc-in signal input from the MD mechanism.
pin 53: MD SI : IN : Serial data input from the MD mechanism.
pin 54: MD X SRQ : IN : Request signal input from the MD mechanism.
pin 55: MD RESET : O : MD reset pulse output.
pin 56: MD SO : O : Serial data output to the MD mechanism.
pin 57: MD X SCK : O : The clock pulse output to the MD mechanism.
pin 58: MD X CS : O : The chip selection signal output to the MD mechanism.
pin 59: MD WP : O : Wake up signal output to the MD mechanism.
pin 60: VDD : - : Positive voltage supply.
pin 61: NU : - : Not in use.
pin 62: GND : - : Ground.
pin 63: CD SI : IN : Serial data input from the CD mechanism.
pin 64: CD SRQ : IN : SRQ input from the CD mechanism.
pin 65: CD CS : O : The chip select signal output to CD mechanism.
pin 66: CD WAKEUP : O : The wakeup signal output to the CD mechanism.
pin 67: CD RESET : O : The reset pulse output to the CD IC.
pin 68: NU : - : Not in use.
pin 69: NU : - : Not in use.
pin 70: NU : - : Not in use.
pin 71: NU : - : Not in use.
pin 72: NU : - : Not in use.
pin 73: NU : - : Not in use.
pin 74: NU : - : Not in use.
pin 75: NU : - : Not in use.
pin 76: NU : - : Not in use.
pin 77: NU : - : Not in use.
pin 78: BL CONT : O : The back light control signal output.
pin 79: BL ON : O : Back light ON command output.
pin 80: LCD DI : IN : The srial data input from the LCD driver.
pin 81: EV/LCD/PLL DO : O : The serial data output for the electric volume IC , LCD driver and PLL IC.
pin 82: EV/LCD/PLL CK : O : The serial clock output for the electric volume IC , LCD driver and PLL IC.
pin 83: EV/LCD/PLL CE : O : The chip enable output for the electric volume IC , LCD driver and PLL IC.
pin 84: NU : - : Not in use.
pin 85: E VOL 1L : IN : Pulse signal input from the rotary encoder.
pin 86: E VOL 2L : IN : Pulse signal input from the rotary encoder.

pin 87: POWER SW : IN : Power switch ON signal input.
pin 88: IX-6 LOAD : IN : CD-6-Autochanger loading signal input.
pin 89: MD EJ SW : IN : MD eject switch signal input.
pin 90: CD EJ SW : IN : CD eject switch signal input.
pin 91: E VOL 1R : IN : Pulse signal input from the rotary encoder.
pin 92: E VOL 2R : IN : Pulse signal input from the rotary encoder.
pin 93: TEL / AUX : IN : TEL = 2.2V to 2.8V, AUX = 3.0V to 3.6V, OFF = 5.0V
pin 94: A VSS : - : Negative voltage supply for analog section.
pin 95: SR 1 : IN : Steering wheel remote controller input.
pin 96: Vref : - : Reference voltage.
pin 97: A VCC : - : Positive voltage supply for the internal analog section.
pin 98: LCD INH : O : LCD inhibit signal output to the LCD driver.
pin 99: NU : - : Not in use.
pin100: MODE 1 : IN : Mode select input. Refer Table 1.

Table 1. Mode select input

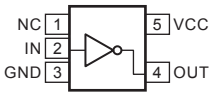
	CD/MD	6-CD	1-CD
MODE 2 (pin 1)	H	L	L
MODE 1 (pin 100)	L	H	L

Table 2. The destination setting input

	JPN	USA	EXP1	EXP2
AREA 1 (pin 3)	L	H	L	H
AREA 2 (pin 4)	L	L	H	H

CD mechanism section: 929-0301-84

051-7280-38 TC7SU04FU Single Inverter



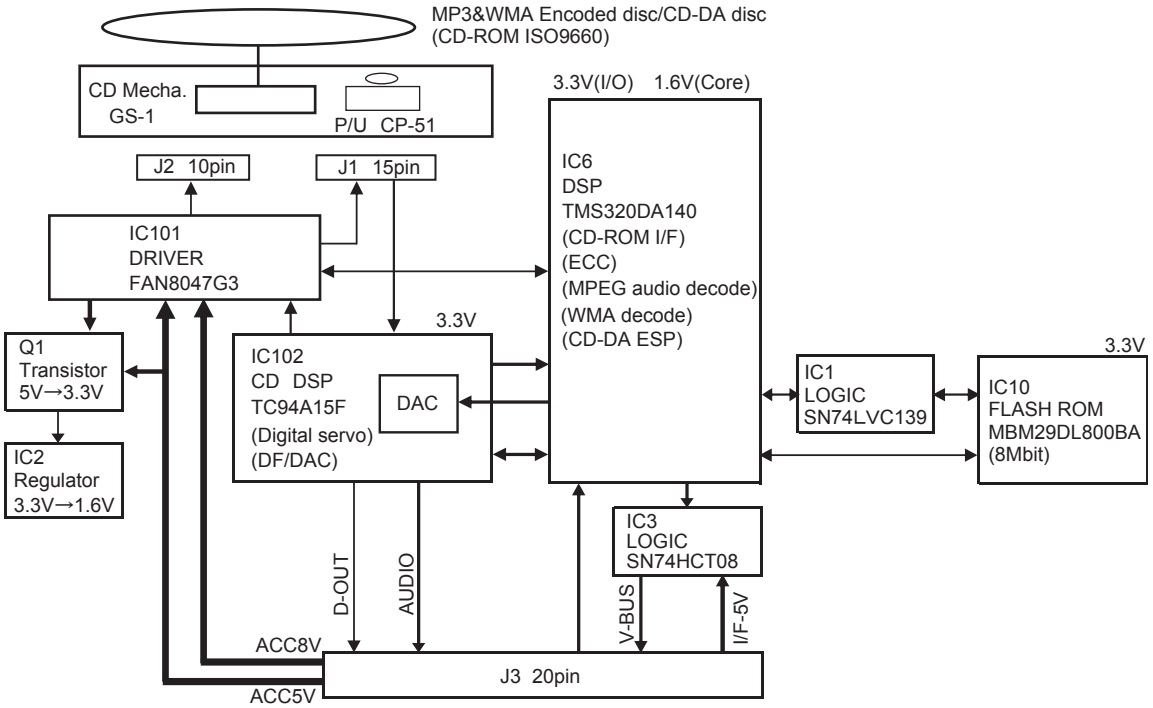
052-5055-34 MBM29DL800BA-90PFTN 8 M bit Flash Memory

Terminal Description

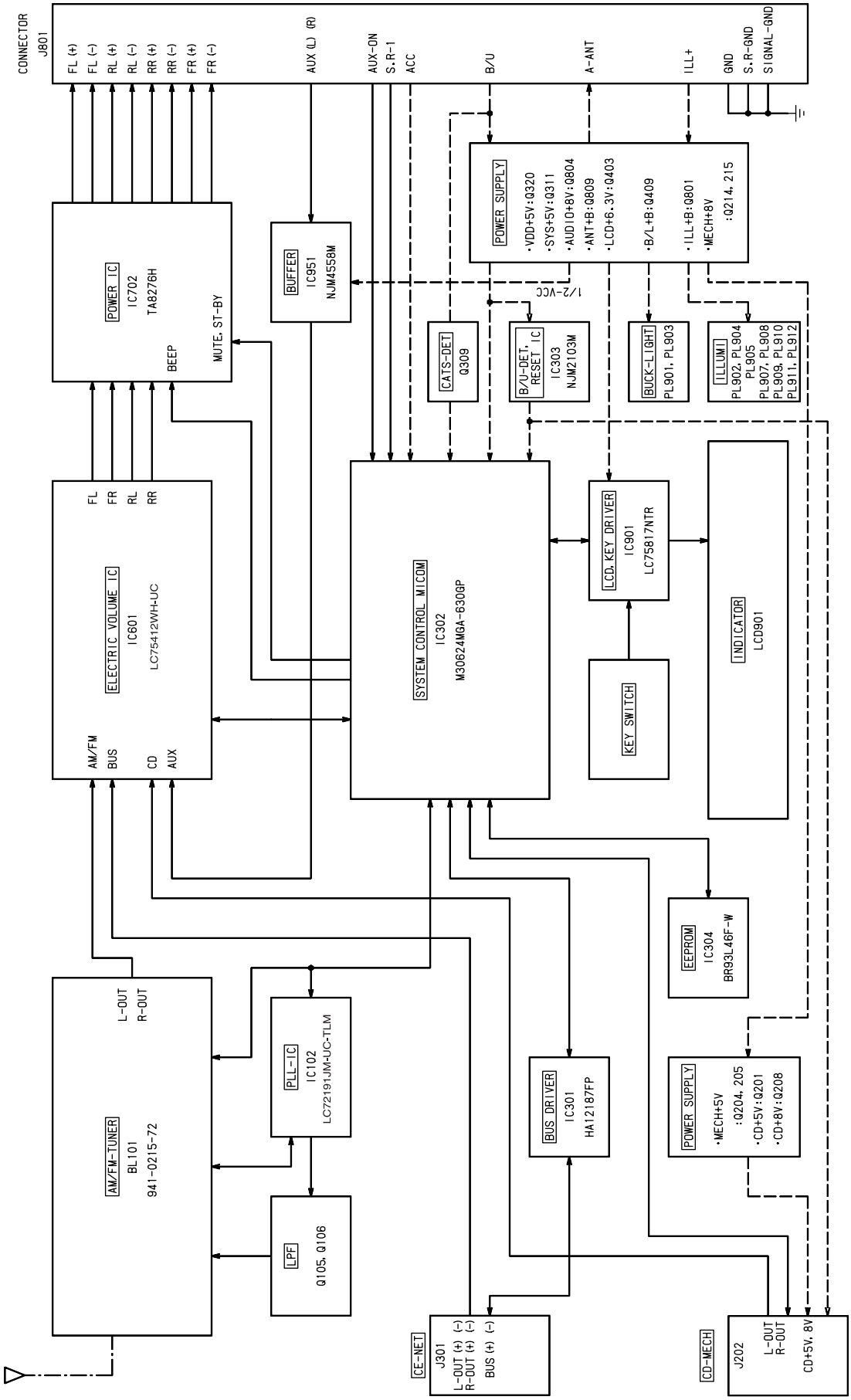
pin 1: Address 15 : IN : Address signal input.
pin 2: Address 14 : IN : Address signal input.
pin 3: Address 13 : IN : Address signal input.
pin 4: Address 12 : IN : Address signal input.
pin 5: Address 11 : IN : Address signal input.
pin 6: Address 10 : IN : Address signal input.
pin 7: Address 9 : IN : Address signal input.
pin 8: Address 8 : IN : Address signal input.
pin 9: NU : - : Not in use.
pin 10: NU : - : Not in use.
pin 11: WE : IN : Write enable signal input.
pin 12: RESET : IN : Reset signal input.
pin 13: NU : - : Not in use.
pin 14: NU : - : Not in use.
pin 15: Ready/Busy : O : Ready/Busy flag output, H = Ready.
pin 16: Address 18 : IN : Address signal input.
pin 17: Address 17 : IN : Address signal input.
pin 18: Address 7 : IN : Address signal input.
pin 19: Address 6 : IN : Address signal input.
pin 20: Address 5 : IN : Address signal input.
pin 21: Address 4 : IN : Address signal input.
pin 22: Address 3 : IN : Address signal input.
pin 23: Address 2 : IN : Address signal input.
pin 24: Address 1 : IN : Address signal input.
pin 25: Address 0 : IN : Address signal input.
pin 26: CE : IN : Chip enable signal input.
pin 27: VSS : - : Negative supply voltage.
pin 28: OE : IN : Output enable signal input.
pin 29: DQ 0 : I/O: The data input / output.
pin 30: DQ 8 : I/O: The data input / output.
pin 31: DQ 1 : I/O: The data input / output.
pin 32: DQ 9 : I/O: The data input / output.
pin 33: DQ 2 : I/O: The data input / output.
pin 34: DQ 10 : I/O: The data input / output.
pin 35: DQ 3 : I/O: The data input / output.
pin 36: DQ 11 : I/O: The data input / output.
pin 37: VCC : - : Positive supply voltage.
pin 38: DQ 4 : I/O: The data input / output.
pin 39: DQ 12 : I/O: The data input / output.
pin 40: DQ 5 : I/O: The data input / output.
pin 41: DQ 13 : I/O: The data input / output.
pin 42: DQ 6 : I/O: The data input / output.
pin 43: DQ 14 : I/O: The data input / output.
pin 44: DQ 7 : I/O: The data input / output.
pin 45: DQ 15 / A-1 : I/O: The data input/output, The Address signal input.
pin 46: VSS : - : Negative supply voltage.
pin 47: BYTE : IN : The data length selection(8bit/16bit).
pin 48: Address 16 : IN : Address signal input.

BLOCK DIAGRAM

CD mechanism section:929-0301-84

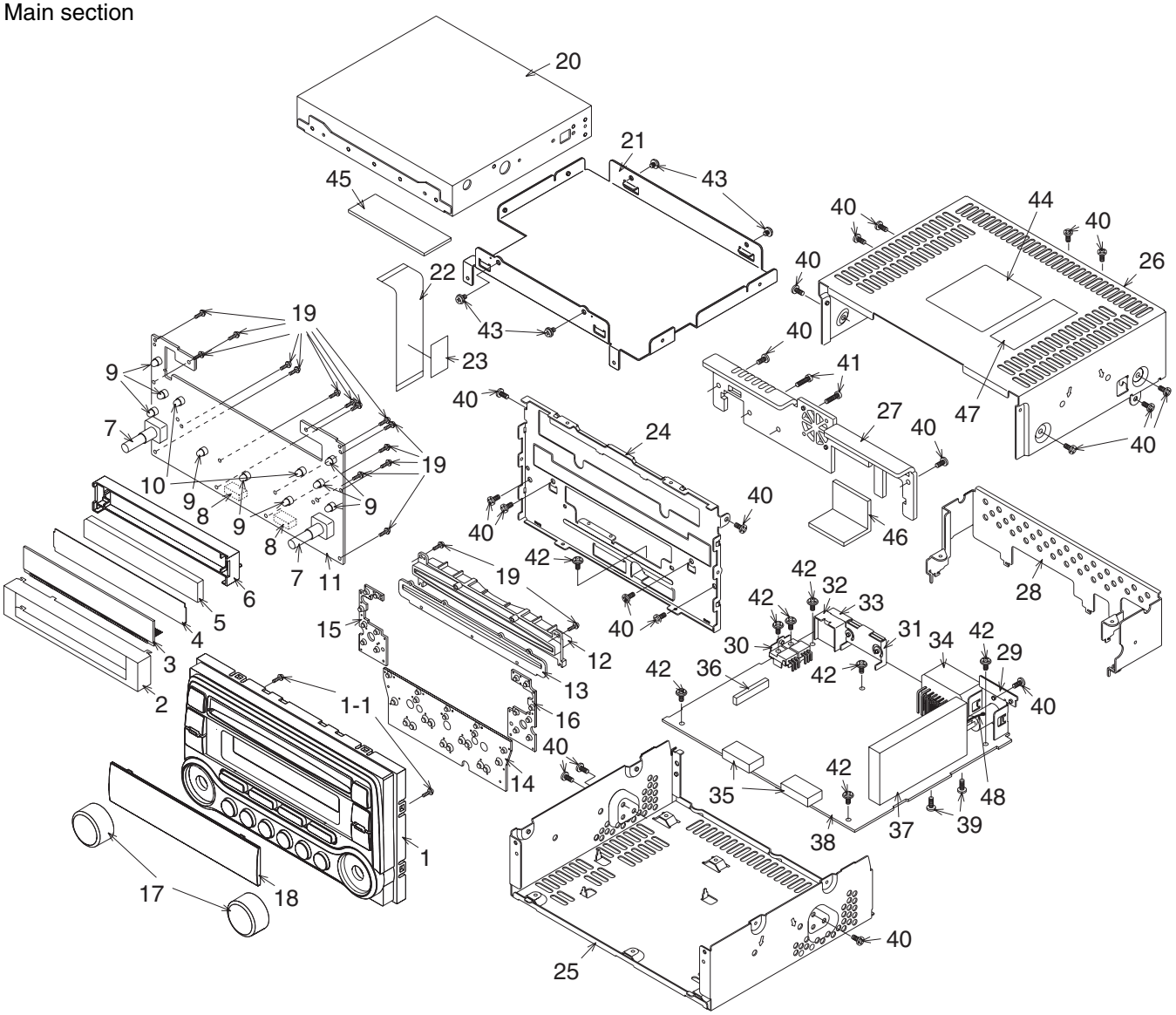


PS-2760D


CONNECTOR
J801
FL (+)
FL (-)
RL (+)
RL (-)
RR (+)
RR (-)
FR (+)
FR (-)
AUX (L) (R)
AUX-ON
S.R-I
ACC
B/U
A-ANT
ILL+
GND
S.R-GND
SIGNAL-GND
POWER IC
IC702
TA8276H
BEEP
MUTE, ST-BY
BUFFER
IC951
NJM4558M
POWER SUPPLY
·VDD+5V:Q320
·SYS+5V:Q311
·AUDIO+8V:Q804
·ANT+B:Q809
·LCD+6.3V:Q403
·B/L+B:Q409
·ILL+B:Q801
·MECH+8V
:Q214, 215
1/2-VCC
CATS-DET
Q309
B/U-DET, RESET IC
IC303
NJM2103M
BUCK-LIGHT
PL901, PL903
ILLUMI
PL902, PL904
PL905
PL907, PL908
PL909, PL910
PL911, PL912
FL
FR
RL
RR
ELECTRIC VOLUME IC
IC601
LC75412WH-UC
AM/FM
BUS
CD
AUX
SYSTEM CONTROL MICOM
IC302
M30624MGA-630GP
LCD, KEY DRIVER
IC901
LC75817NTR
KEY SWITCH
INDICATOR
LCD901
L-OUT
R-OUT
AM/FM-TUNER
BL101
941-0215-72
PLL-IC
IC102
LC72191JM-UC-TLM
LPF
Q105, Q106
BUS DRIVER
IC301
HA12187FP
EEPROM
IC304
BR93L46F-W
POWER SUPPLY
·MECH+5V
:Q204, 205
·CD+5V:Q201
·CD+8V:Q208
CE-NET
J301
L-OUT (+) (-)
R-OUT (+) (-)
BUS (+) (-)
CD-MECH
J202
L-OUT
R-OUT
CD+5V, 8V

EXPLODED VIEW / PARTS LIST

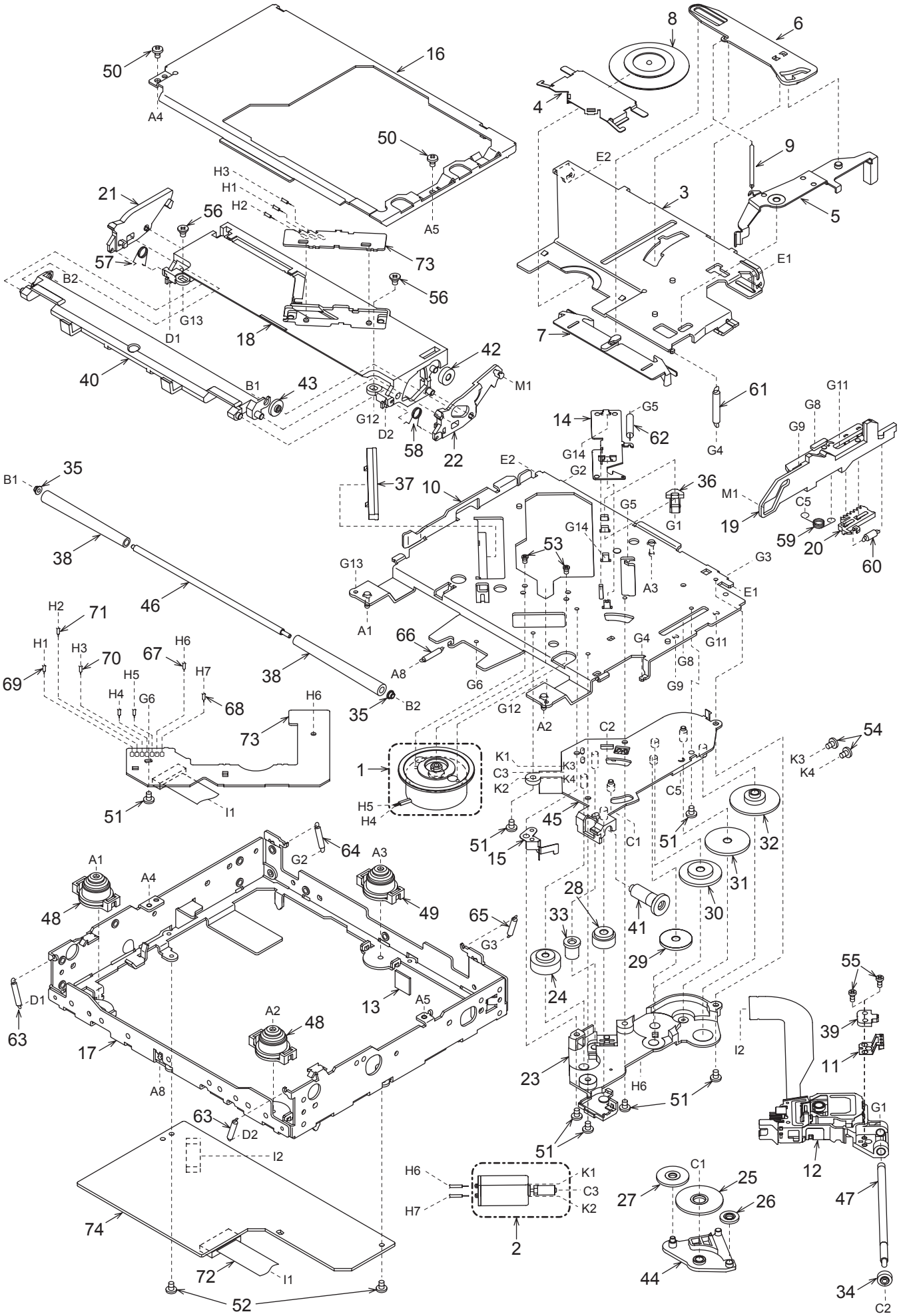
Main section



NO.	PART NO.	DESCRIPTION	Q'TY
1	940-8099-11	ESCUTCHEON ASSY	1
1-1	716-0778-00	WAVE SCREW(2X6)	2
2	331-3883-00	LCD CVR	1
3	379-1335-52	INDICATOR(LCD)	1
4	335-7322-00	COLOR FILTER	1
5	335-7323-10	LCD ILLUMI	1
6	335-7291-00	LCD HOLDER	1
7	016-0014-14	VR W/SHAFT	2
8	074-3000-62	OUTLET SOCKET(4P)	2
9	017-0420-38	PILOT LAMP(14V 43mA)	9
10	017-0429-20	PILOT LAMP(8V 105mA)	2
11	----------	SWITCH PWB	1
12	335-7292-00	DISC GUIDE	1
13	346-0149-01	LEATHER SHEET	1
14	345-5550-00	RUBBER SW(A)	1
15	345-5551-00	RUBBER SW(B)	1
16	345-5552-00	RUBBER SW(C)	1
17	380-5634-00	KNOB	2
18	373-1072-01	DIAL CVR	1
19	716-0778-00	WAVE SCREW(2X6)	16
20	929-0301-84	CD MECH MODULE	1
21	331-3463-01	MECH BRKT	1
22	816-2651-50	FLAT WIRE	1
23	335-7621-00	WIRE SUPPORT	1
24	309-0795-02	ESCUTCHEON PLATE	1

NO.	PART NO.	DESCRIPTION	Q'TY
25	311-1861-01	LOWER CASE	1
26	310-1762-00	UPPER CASE	1
27	313-1856-00	HEAT SINK	1
28	331-3722-00	MECH BRKT	1
29	331-3444-10	ANT HOLDER	1
30	331-3458-00	TR HOLDER	1
31	331-3459-00	IC HOLDER	1
32	331-3460-00	CONNECTOR HOLDER	1
33	074-1194-00	OUTLET SOCKET(CeNET)	1
34	074-4007-20	OUTLET SOCKET(20P)	1
35	076-0648-12	PLUG	2
36	074-1192-20	OUTLET SOCKET(20P)	1
37	941-0215-72	TUNER PACK	1
38	----------	MAIN PWB	1
39	778-3006-00	TAP SCREW(3X6)	2
40	714-2606-81	MACHINE SCREW(M2.6X6)	20
41	714-2612-81	MACHINE SCREW(M2.6X12)	2
42	716-0878-00	IT SCREW(M2.6X5)	8
43	714-2603-81	MACHINE SCREW(M2.6X6)	4
44	286-6224-15	SETPLATE	1
45	345-5579-00	CUSHION RUBBER	1
46	345-5384-00	CUSHION	1
47	285-1960-00	GUIDE LABEL	1
48	800-0207-60	VINYL-COAT-WIRE	1

CD mechanism section: 929-0301-84



NO.	PART NO.	DESCRIPTION	Q'TY
1	SMA-182-100	SPD-MOTOR-ASSY	1
2	SMA-183-100	POW-MOTOR-ASSY	1
3	620-1736-22	CLAMPER LINK	1
4	620-1742-20	CLAMPER PLATE	1
5	620-1737-21	SENSOR ARM	1
6	621-0626-21	STOPPER LINK	1
7	621-0627-21	DISC STOPPER	1
8	621-0708-20	CLAMPER RING	1
9	750-3471-20	SENSOR SPRING	1
10	966-1729-21	DRIVE-PLT-ASSY	1
11	966-1747-20	SH-RACK-ASSY	1
12	969-0071-31	PICK UP-ASSY	1
13	345-5476-20	CUSHION RUBBER	1
14	620-1738-21	ID-LOCK PLATE	1
15	620-1739-20	SPRING PLATE	1
16	620-1740-22	UPPER CHASSIS	1
17	620-1585-22	LOWER CHASSIS-W	1
18	621-0598-27	UPPER GUIDE	1
19	621-0600-26	SHIFT LEVER	1
20	621-1735-20	RACK	1
21	621-0602-22	LOCK ARM L	1
22	621-0603-25	LOCK ARM R	1
23	621-0605-22	GEAR COVER	1
24	621-0608-21	SECOND GEAR	1
25	621-0609-20	BASE GEAR	1
26	621-0610-20	IDLE GEAR A	1
27	621-0611-20	IDLE GEAR B	1
28	621-0612-21	ROLLER GEAR A	1
29	621-0616-20	POWER GEAR A	1
30	621-0617-20	POWER GEAR B	1
31	621-0618-20	POWER GEAR C	1
32	621-0619-20	POWER GEAR D	1
33	621-0620-20	THREAD GEAR A	1
34	621-0621-20	THREAD GEAR B	1
35	621-1726-20	ROLLER SLEEVE	2
36	621-0623-23	LS-HOLDER	1
37	621-0624-22	GUIDE RAIL	1

NO.	PART NO.	DESCRIPTION	Q'TY
38	621-0711-20	LOADING ROLLER	2
39	621-1729-20	SH-BASE	1
40	621-0718-21	ROLLER GUIDE	1
41	621-0719-20	ROLLER GEAR	1
42	621-0720-20	ROLLER GEAR C	1
43	621-0721-20	ROLLER GEAR D	1
44	621-1719-20	IDLE CASE	1
45	621-0724-21	GEAR BASE	1
46	622-1660-20	ROLLER SHAFT	1
47	624-0018-01	LEAD SCREW	1
48	629-0086-20	DAMPER F	2
49	629-0087-20	DAMPER R	1
50	714-2003-81	MACHINE SCREW (M2x3)	2
51	716-1507-00	SCREW (M2x3)	7
52	716-1670-00	SCREW (M2x4)	2
53	716-1733-00	SCREW (M1.7x2.3)	2
54	716-3551-00	SCREW (M1.4x2.5)	2
55	716-3469-00	SCREW (Φ1.7x4)	2
56	716-3473-00	SCREW (M2x3)	2
57	750-3465-21	ROLLER SPRING L	1
58	750-3466-20	ROLLER SPRING R	1
59	750-3467-21	SHIFT SPRING	1
60	750-3468-20	RACK SPRING	1
61	750-3469-20	CLAMPER SPRING	1
62	750-3470-20	ID-LOCK SPRING	1
63	750-3472-21	DR-SPRING F	2
64	750-3473-20	DR-SPRING RA	1
65	750-3474-20	DR-SPRING RB	1
66	750-3475-21	DR-SPRING C	1
67	803-4906-60	VINYL-COAT-WIRE (Orange)	1
68	816-2590-00	EXTENSION LEAD (Green)	1
69	816-2591-00	EXTENSION LEAD (Yellow)	1
70	816-2592-00	EXTENSION LEAD (Blue)	1
71	816-2593-00	EXTENSION LEAD (Purple)	1
72	816-2624-50	FLAT WIRE	1
73	----------	LED PWB	1
74	----------	CD PWB	1

ELECTRICAL PARTS LIST

Main PWB (B1) section

REF No.	PART No.	DESCRIPTION
ANT102	092-0702-00	ANT RECEPT
BL101	941-0215-72	AM/FM TUNER
C107	168-2232-55	0.022uF K
C109	178-4742-78	0.47uF
C113	189-1073-29	10V 100uF
C114	168-1042-78	16V 0.1uF
C115	168-1042-78	16V 0.1uF
C116	168-1042-78	16V 0.1uF
C117	166-1801-50	18pF CH
C118	166-1801-50	18pF CH
C119	188-1073-28	10V 100uF
C120	168-2232-55	0.022uF K
C121	166-1011-50	100pF CH
C122	166-1011-50	100pF CH
C123	042-1458-90	50V 1uF
C124	168-2232-55	0.022uF K
C125	188-4763-38	16V 47uF
C126	168-1022-55	1000pF
C127	188-4763-38	16V 47uF
C128	166-1011-50	100pF CH
C129	166-1011-50	100pF CH
C131	168-2232-55	0.022uF K
C132	166-1011-50	100pF CH
C133	166-1011-50	100pF CH
C138	119-0000-05	1/10W 0 ohm JW
C204	168-2232-55	0.022uF K
C205	168-1042-78	16V 0.1uF
C206	189-2273-28	10V 220uF
C209	189-4773-19	6.3V 470uF
C213	188-1063-38	16V 10uF
C214	188-1073-28	10V 100uF
C215	188-4763-38	16V 47uF
C216	188-4763-18	6.3V 47uF
C217	168-1042-78	16V 0.1uF
C301	168-1032-55	0.01uF K
C302	168-1042-78	16V 0.1uF
C303	188-4763-18	6.3V 47uF
C304	168-1032-55	0.01uF K
C305	168-1032-55	0.01uF K
C306	168-1032-55	0.01uF K
C307	168-1042-78	16V 0.1uF
C309	188-1053-68	50V 1uF
C311	168-1022-55	1000pF K
C312	168-1022-55	1000pF K
C313	168-1042-78	16V 0.1uF
C314	188-2263-38	16V 22uF
C315	168-1042-78	16V 0.1uF
C316	042-0559-00	5.5V 0.1F
C318	188-1073-28	10V 100uF
C319	168-1042-78	16V 0.1uF
C320	188-4763-38	16V 47uF
C401	188-1063-38	16V 10uF
C402	188-1063-38	16V 10uF
C403	188-1063-38	16V 10uF
C404	188-1073-28	10V 100uF
C603	188-2253-67	50V 2.2uF
C604	168-1532-55	0.015uF K
C605	168-1532-55	0.015uF K
C606	188-2253-68	50V 2.2uF
C610	168-4712-55	470pF K
C611	168-4712-55	470pF K
C619	188-4763-37	16V 47uF
C620	188-4763-17	6.3V 47uF
C622	178-5642-78	0.56uF
C623	178-5642-78	0.56uF
C626	188-1053-68	50V 1uF
C627	188-1053-68	50V 1uF
C632	168-1042-78	16V 0.1uF
C633	168-1042-78	16V 0.1uF
C634	168-1042-78	16V 0.1uF
C635	168-1042-78	16V 0.1uF
C640	168-1022-55	1000pF K
C641	168-1022-55	1000pF K
C642	168-1022-55	1000pF K
C643	168-1022-55	1000pF K

REF No.	PART No.	DESCRIPTION
C644	188-1063-38	16V 10uF
C645	188-1063-38	16V 10uF
C646	168-3332-78	0.033uF K
C647	168-5632-78	16V 0.056uF
C648	168-5632-78	16V 0.056uF
C649	168-4712-55	470pF K
C650	168-4712-55	470pF K
C670	188-1073-28	10V 100uF
C671	168-1042-78	16V 0.1uF
C672	188-1073-28	10V 100uF
C691	178-1052-78	1uF
C692	188-1063-38	16V 10uF
C693	188-1063-38	16V 10uF
C694	188-1063-38	16V 10uF
C695	188-1063-38	16V 10uF
C696	178-1052-78	1uF
C730	168-1042-78	16V 0.1uF
C731	168-1042-78	16V 0.1uF
C732	168-1042-78	16V 0.1uF
C733	168-1042-78	16V 0.1uF
C734	188-1053-68	50V 1uF
C735	188-1063-38	16V 10uF
C738	188-1053-68	50V 1uF
C801	188-1063-38	16V 10uF
C806	188-4763-38	16V 47uF
C807	188-1073-28	10V 100uF
C809	172-1041-15	0.1uF
C810	188-1053-68	50V 1uF
C813	042-1586-00	16V 4700uF
C814	172-1041-15	0.1uF
C851	168-1032-55	0.01uF K
C951	168-1042-78	16V 0.1uF
C952	188-4763-38	16V 47uF
C953	166-2201-50	22pF CH
C954	166-2201-50	22pF CH
C955	166-1007-50	10pF CH
C956	166-1007-50	10pF CH
C957	188-1063-38	16V 10uF
C958	188-1063-38	16V 10uF
C959	188-1063-38	16V 10uF
C960	188-1063-38	16V 10uF
C961	168-1042-78	16V 0.1uF
CCT301	050-0140-54	1/32W 1k ohm x4J
D203	001-4301-33	HZU5.6B3
D205	001-0347-48	MA4091H
D301	001-0347-69	MA4180M
D303	060-0108-00	1/6ZP 0 ohm JW
D304	001-0347-69	MA4180M
D305	001-4301-32	HZU5.6B2
D306	001-4301-25	HZU4.7B1
D308	001-0347-69	MA4180M
D310	001-0516-90	MA111
D312	001-0516-90	MA111
D314	001-0466-90	S5688B
D316	001-0504-36	HZS7A1L
D401	001-0504-39	HZS7B2L
D402	001-0347-40	MA4075L
D403	001-0347-43	MA4082L
D803	001-0347-46	MA4091L
D804	001-0516-90	MA111
D805	001-0466-90	S5688B
D806	001-0466-90	S5688B
D807	001-0466-90	S5688B
D808	001-2015-00	RL253
IC102	051-6212-18	LC72191JM-UC-TLM
IC301	051-6600-58	HA12187FP
IC302	052-3196-00	M30624MGA-630GP
IC303	051-0869-58	NJM2103M
IC304	051-9400-29	BR93L46F-W
IC601	051-5027-10	LC75412WH-UC
IC702	051-2040-00	TA8276H
IC951	051-0350-93	NJM4558M
J202	074-1192-20	SOCKET(20P)
J301	074-1194-00	SOCKET(Ce NET)
J801	074-4007-20	SOCKET(20P)

REF No.	PART No.	DESCRIPTION
L101	010-2003-04	30uH(Variable)
L103	010-6009-76	22uH J
L104	010-6009-76	22uH J
L202	010-6009-76	22uH J
L301	010-6009-76	22uH J
L302	010-6009-76	22uH J
P401	076-0648-12	12P
P402	076-0648-12	12P
Q105	192-2712-51	2SC2712 G,L
Q106	192-2712-51	2SC2712 G,L
Q108	191-1240-00	2SB1240
Q109	191-1240-00	2SB1240
Q110	191-1240-00	2SB1240
Q201	190-1428-00	2SA1428
Q202	125-2004-92	RN1402
Q204	193-1858-00	2SD1858
Q205	193-1858-00	2SD1858
Q208	190-1428-00	2SA1428
Q209	192-2712-00	2SC2712
Q214	103-2012-00	2SD2012
Q215	103-2012-00	2SD2012
Q219	125-0002-92	RN2402
Q220	125-2004-92	RN1402
Q301	192-2712-00	2SC2712
Q304	192-2712-00	2SC2712
Q308	192-2712-00	2SC2712
Q309	125-0002-92	RN2402
Q310	192-2712-00	2SC2712
Q311	191-1240-00	2SB1240
Q312	192-2712-00	2SC2712
Q320	193-2118-50	2SD2118F5 R,S
Q401	125-0002-92	RN2402
Q402	125-2004-92	RN1402
Q403	193-1858-00	2SD1858
Q404	125-0002-92	RN2402
Q405	125-2004-92	RN1402
Q407	192-2712-00	2SC2712
Q409	193-2118-00	2SD2118F5 Q,R,S
Q701	125-2004-92	RN1402
Q705	192-2712-00	2SC2712
Q801	190-1428-00	2SA1428
Q802	192-2712-00	2SC2712
Q804	193-2118-00	2SD2118F5 Q,R,S
Q807	125-0002-92	RN2402
Q808	125-2004-92	RN1402
Q809	191-1240-00	2SB1240
Q810	192-2712-00	2SC2712
R107	119-0000-05	1/10W 0 ohm JW
R112	119-2221-15	1/10W 2.2k ohm
R115	119-2221-15	1/10W 2.2k ohm
R116	119-2231-15	1/10W 22k ohm
R117	111-1001-94	1/4W 10 ohm
R119	119-5631-15	1/10W 56k ohm
R120	119-3321-15	1/10W 3.3k ohm
R121	119-2221-15	1/10W 2.2k ohm
R122	119-4721-15	1/10W 4.7k ohm
R123	119-1021-15	1/10W 1k ohm
R124	119-5121-15	1/10W 5.1k ohm
R125	119-1041-15	1/10W 100k ohm
R126	119-2221-15	1/10W 2.2k ohm
R128	119-1021-15	1/10W 1k ohm
R129	119-1021-15	1/10W 1k ohm
R131	119-1031-15	1/10W 10k ohm
R132	119-1031-15	1/10W 10k ohm
R133	119-2221-15	1/10W 2.2k ohm
R134	119-2221-15	1/10W 2.2k ohm
R135	119-1031-15	1/10W 10k ohm
R136	119-0000-05	1/10W 0 ohm JW
R137	119-3311-15	1/10W 330 ohm
R140	119-1041-15	1/10W 100k ohm
R202	119-5611-15	1/10W 560 ohm
R203	119-2221-15	1/10W 2.2k ohm
R206	116-2291-15	1/4W 2.2 ohm
R207	116-2291-15	1/4W 2.2 ohm
R209	119-0000-05	1/10W 0 ohm JW

REF No.	PART No.	DESCRIPTION
R210	119-3611-15	1/10W 360 ohm
R212	119-0000-05	1/10W 0 ohm JW
R214	119-0000-05	1/10W 0 ohm JW
R215	119-0000-05	1/10W 0 ohm JW
R217	119-0000-05	1/10W 0 ohm JW
R223	116-4711-15	1/4W 470 ohm
R225	119-4721-15	1/10W 4.7k ohm
R226	116-4711-15	1/4W 470 ohm
R227	119-2231-15	1/10W 22k ohm
R230	119-3321-15	1/10W 3.3k ohm
R231	116-2291-15	1/4W 2.2 ohm
R232	116-2291-15	1/4W 2.2 ohm
R237	111-1511-81	1/2W 150 ohm
R306	119-1031-15	1/10W 10k ohm
R307	119-4721-15	1/10W 4.7k ohm
R308	119-4721-15	1/10W 4.7k ohm
R309	119-4721-15	1/10W 4.7k ohm
R310	119-4731-15	1/10W 47k ohm
R313	119-4731-15	1/10W 47k ohm
R314	119-4721-15	1/10W 4.7k ohm
R316	032-0140-62	1/10W 1k ohm F
R317	119-0000-05	1/10W 0 ohm JW
R319	119-4721-15	1/10W 4.7k ohm
R320	119-4721-15	1/10W 4.7k ohm
R322	119-0000-05	1/10W 0 ohm JW
R323	119-0000-05	1/10W 0 ohm JW
R325	119-1031-15	1/10W 10k ohm
R328	119-0000-05	1/10W 0 ohm JW
R330	119-0000-05	1/10W 0 ohm JW
R332	119-0000-05	1/10W 0 ohm JW
R334	119-1031-15	1/10W 10k ohm
R335	119-4731-15	1/10W 47k ohm
R336	119-4731-15	1/10W 47k ohm
R337	119-4731-15	1/10W 47k ohm
R338	119-4731-15	1/10W 47k ohm
R339	117-2231-15	1/8W 22k ohm
R340	111-6801-94	1/4W 68 ohm
R341	117-2231-15	1/8W 22k ohm
R342	119-1031-15	1/10W 10k ohm
R344	117-5621-15	1/8W 5.6k ohm
R345	119-2231-15	1/10W 22k ohm
R346	117-1021-15	1/8W 1k ohm
R347	119-1021-15	1/10W 1k ohm
R348	119-2231-15	1/10W 22k ohm
R349	119-1031-15	1/10W 10k ohm
R350	119-1041-15	1/10W 100k ohm
R351	119-1041-15	1/10W 100k ohm
R352	119-6831-15	1/10W 68k ohm

REF No.	PART No.	DESCRIPTION
R354	119-3341-15	1/10W 330k ohm
R355	119-6831-15	1/10W 68k ohm
R356	119-5631-15	1/10W 56k ohm
R357	111-1211-94	1/4W 120 ohm
R358	119-2241-15	1/10W 220k ohm
R359	119-4731-15	1/10W 47k ohm
R360	119-1531-15	1/10W 15k ohm
R361	119-1021-15	1/10W 1k ohm
R363	119-1031-15	1/10W 10k ohm
R364	119-1021-15	1/10W 1k ohm
R365	119-1031-15	1/10W 10k ohm
R366	119-2221-15	1/10W 2.2k ohm
R368	119-0000-05	1/10W 0 ohm JW
R370	116-1001-15	1/4W 10 ohm
R371	119-4721-15	1/10W 4.7k ohm
R372	119-0000-05	1/10W 0 ohm JW
R379	117-6821-15	1/8W 6.8k ohm
R401	119-1221-15	1/10W 1.2k ohm
R402	032-0092-51	1/8W 1k ohm F
R403	032-0092-56	1/8W 22k ohm F
R404	119-1541-15	1/10W 150k ohm
R405	116-1021-15	1/4W 1k ohm
R406	119-2231-15	1/10W 22k ohm
R407	119-2231-15	1/10W 22k ohm
R408	116-1591-15	1/4W 1.5 ohm
R411	060-0108-00	1/6ZP 0 ohm JW
R413	119-0000-05	1/10W 0 ohm JW
R414	119-4721-15	1/10W 4.7k ohm
R417	119-4721-15	1/10W 4.7k ohm
R453	119-0000-05	1/10W 0 ohm JW
R603	119-1031-15	1/10W 10k ohm
R605	119-4721-15	1/10W 4.7k ohm
R606	119-1831-15	1/10W 18k ohm
R607	119-1831-15	1/10W 18k ohm
R608	119-4721-15	1/10W 4.7k ohm
R610	119-1031-15	1/10W 10k ohm
R615	119-1221-15	1/10W 1.2k ohm
R616	119-1221-15	1/10W 1.2k ohm
R620	119-1051-15	1/10W 1M ohm
R651	119-0000-05	1/10W 0 ohm JW
R652	119-0000-05	1/10W 0 ohm JW
R670	116-2291-15	1/4W 2.2 ohm
R671	116-8211-15	1/4W 820 ohm
R672	116-1021-15	1/4W 1k ohm
R691	119-3331-15	1/10W 33k ohm
R692	119-3331-15	1/10W 33k ohm
R693	119-3331-15	1/10W 33k ohm
R694	119-3331-15	1/10W 33k ohm

REF No.	PART No.	DESCRIPTION
R729	119-1031-15	1/10W 10k ohm
R733	119-8221-15	1/10W 8.2k ohm
R734	119-2221-15	1/10W 2.2k ohm
R735	119-2221-15	1/10W 2.2k ohm
R736	119-2221-15	1/10W 2.2k ohm
R737	119-2221-15	1/10W 2.2k ohm
R738	119-2221-15	1/10W 2.2k ohm
R739	119-4731-15	1/10W 47k ohm
R740	119-4731-15	1/10W 47k ohm
R801	116-4721-15	1/4W 4.7k ohm
R802	111-1031-94	1/4W 10k ohm
R803	119-1031-15	1/10W 10k ohm
R804	119-1031-15	1/10W 10k ohm
R805	116-2221-15	1/4W 2.2k ohm
R806	116-2221-15	1/4W 2.2k ohm
R815	116-4711-15	1/4W 470 ohm
R816	111-5621-94	1/4W 5.6k ohm
R817	116-2221-15	1/4W 2.2k ohm
R818	117-1031-15	1/8W 10k ohm
R819	116-2221-15	1/4W 2.2k ohm
R820	119-3321-15	1/10W 3.3k ohm
R821	119-1031-15	1/10W 10k ohm
R831	119-0000-05	1/10W 0 ohm JW
R832	119-0000-05	1/10W 0 ohm JW
R851	119-5631-15	1/10W 56k ohm
R852	119-1221-15	1/10W 1.2k ohm
R891	119-0000-05	1/10W 0 ohm JW
R951	119-1031-15	1/10W 10k ohm
R952	119-1031-15	1/10W 10k ohm
R953	119-1031-15	1/10W 10k ohm
R954	119-1031-15	1/10W 10k ohm
R955	119-1031-15	1/10W 10k ohm
R956	119-1031-15	1/10W 10k ohm
R957	119-1031-15	1/10W 10k ohm
R958	119-1031-15	1/10W 10k ohm
R959	119-1021-15	1/10W 1k ohm
SUP10	060-0122-20	DSP-141N-S00B
T801	009-0670-00	180uH
TH801	002-0222-90	PTH61G30BD
TM101	073-0762-90	TERMINAL
TM102	073-0762-90	TERMINAL
TM103	073-0762-90	TERMINAL
TM104	073-0762-90	TERMINAL
X101	061-1066-00	7.2MHZ
X301	060-1533-90	10MHZ
PWB	039-2696-00	PWB(WITHOUT COMPONENT)

Switch PWB (B2) section

REF No.	PART No.	DESCRIPTION
C901	168-1042-78	16V 0.1uF
C902	168-1042-78	16V 0.1uF
C903	168-1042-78	16V 0.1uF
C904	168-1042-78	16V 0.1uF
C905	168-1042-78	16V 0.1uF
C906	168-2212-55	220pF K
IC901	051-6052-20	LC75817NTRH8720-UC-E
J901	074-3000-62	SOCKET(12)
J902	074-3000-62	SOCKET(12P)
L901	010-3406-66	NLV25 22uH J
LCD901	379-1335-52	INDICATOR(LCD)
PL901	017-0429-20	8V 105mA
PL902	017-0420-38	14V 40mA

REF No.	PART No.	DESCRIPTION
PL903	017-0429-20	8V 105mA
PL904	017-0420-38	14V 40mA
PL905	017-0420-38	14V 40mA
PL907	017-0420-38	14V 40mA
PL908	017-0420-38	14V 40mA
PL909	017-0420-38	14V 40mA
PL910	017-0420-38	14V 40mA
PL911	017-0420-38	14V 40mA
PL912	017-0420-38	14V 40mA
R904	119-0000-05	1/10W 0 ohm JW
R905	119-0000-05	1/10W 0 ohm JW
R906	119-0000-05	1/10W 0 ohm JW
R907	119-0000-05	1/10W 0 ohm JW

REF No.	PART No.	DESCRIPTION
R910	119-0000-05	1/10W 0 ohm JW
R912	119-0000-05	1/10W 0 ohm JW
R914	119-0000-05	1/10W 0 ohm JW
R915	119-3331-15	1/10W 33k ohm
R916	119-1021-15	1/10W 1k ohm
R917	119-1021-15	1/10W 1k ohm
TH901	002-0306-90	SC20-3J153
VR901	016-0014-14	VR W/SHAFT
VR902	016-0014-14	VR W/SHAFT
PWB	039-2697-00	PWB(WITHOUT COMPONENT)

CD PWB (B3) section: CD mechanism

REF No.	PART No.	DESCRIPTION
C1	168-1042-78	16V 0.1uF
C4	168-1042-78	16V 0.1uF
C5	046-1032-78	0.01uF
C9	046-4722-58	4700pF
C10	045-1011-50	100pF
C13	168-1042-78	16V 0.1uF
C16	168-1042-78	16V 0.1uF
C17	046-1032-78	0.01uF
C18	178-1052-78	1uF
C19	046-1032-78	0.01uF
C20	168-1042-78	16V 0.1uF
C21	042-0595-53	4V220uF
C22	168-1042-78	16V 0.1uF
C23	168-1042-78	16V 0.1uF
C24	046-1032-78	0.01uF
C25	045-8097-50	8pF
C26	045-8097-50	8pF
C27	042-0416-52	10V10uF TAN
C28	046-1032-78	0.01uF
C29	168-1042-78	16V 0.1uF
C30	045-1201-50	12pF
C31	168-1042-78	16V 0.1uF
C32	046-1032-78	0.01uF
C33	046-1032-78	0.01uF
C34	046-1032-78	0.01uF
C35	046-1022-58	1000pF
C102	163-1073-35	16V100uF
C103	046-4722-58	4700pF
C104	046-1032-78	0.01uF
C105	168-1042-78	16V 0.1uF
C106	168-1042-78	16V 0.1uF
C107	042-0416-52	10V10uF TAN
C108	168-1042-78	16V 0.1uF
C109	168-1042-78	16V 0.1uF
C110	168-1042-78	16V 0.1uF
C111	168-1042-78	16V 0.1uF
C112	168-4732-78	0.047uF
C113	168-4732-78	0.047uF
C114	168-1042-78	16V 0.1uF
C115	045-4701-50	47pF
C116	046-4712-58	470pF
C117	046-4712-58	470pF
C118	168-1042-78	16V 0.1uF
C119	168-1042-78	16V 0.1uF
C120	046-1532-78	0.015uF
C121	046-6822-58	6800pF
C122	168-1042-78	16V 0.1uF
C123	046-1032-78	0.01uF
C126	046-3332-78	0.033uF
C127	046-4722-58	4700pF
C130	168-1042-78	16V 0.1uF
C131	046-1522-58	1500pF
C132	168-1042-78	16V 0.1uF

REF No.	PART No.	DESCRIPTION
C133	046-1532-78	0.015uF
C134	168-1042-78	16V 0.1uF
C135	045-6801-50	50V 68pF
C136	178-1052-78	1uF
C138	168-1042-78	16V 0.1uF
C139	168-1042-78	16V 0.1uF
C140	046-6812-58	680pF
C142	178-1052-78	1uF
C144	042-0560-85	6.3V 100uF
C145	168-1042-78	16V 0.1uF
C146	168-1042-78	16V 0.1uF
C147	178-1052-78	1uF
C148	042-0595-53	4V220uF
C149	163-1073-35	16V100uF
C150	168-1042-78	16V 0.1uF
C151	178-1052-78	1uF
C200	178-1052-78	1uF
CCT1	050-0145-54	1/16W 47k ohm x4
CCT2	050-0145-58	2.2k ohm x 4
CCT3	050-0140-63	1/32W 47k ohm x4J
CCT10	050-0140-68	1/32W 3.3k ohm x4J
D1	001-2610-90	RB480KTL
D2	001-2610-90	RB480KTL
D3	001-2610-90	RB480KTL
D4	001-2610-90	RB480KTL
D5	001-2610-90	RB480KTL
D6	001-2610-90	RB480KTL
D101	001-0367-91	1SS226
IC1	051-7518-18	SN74LVC139APWR
IC2	051-3315-90	TPS76316DBVR
IC3	051-7239-38	SN74AHCT08PWR
IC5	051-5441-08	BD4828G-TR
IC6	051-6700-00	TMS320DA140
IC10	052-5055-34	MBM29DL800BA-90PFTN
IC11	051-6919-08	NJU6391PE
IC12	051-7221-58	SN74AHC1G04HDCKR
IC13	051-7280-38	TC7SU04FU-TE85L
IC14	051-7280-38	TC7SU04FU-TE85L
IC101	051-6069-08	FAN8047G3
IC102	051-6399-00	TC94A15F
J1	074-1138-65	15P
J2	074-1138-60	10P
J3	074-1237-70	20P
Q1	131-1188-50	2SB1188PQR
Q2	125-2004-92	RN1402
Q101	131-1188-50	2SB1188PQR
Q102	131-1188-50	2SB1188PQR
R1	033-4721-15	1/10W 4.7k ohm
R2	033-1041-15	1/10W 100k ohm
R3	033-1041-15	1/10W 100k ohm
R4	033-1031-15	1/10W 10k ohm
R5	033-2231-15	1/10W 22k ohm
R6	033-3911-15	1/10W 390 ohm

REF No.	PART No.	DESCRIPTION
R7	033-4731-15	1/10W 47k ohm
R8	033-1051-15	1/10W 1M ohm
R9	033-3311-15	1/10W 330 ohm
R12	033-4731-15	1/10W 47k ohm
R13	033-1041-15	1/10W 100k ohm
R14	033-4721-15	1/10W 4.7k ohm
R15	033-4721-15	1/10W 4.7k ohm
R16	033-1021-15	1/10W 1k ohm
R17	033-1021-15	1/10W 1k ohm
R19	033-4731-15	1/10W 47k ohm
R20	033-4731-15	1/10W 47k ohm
R23	033-2211-15	1/10W 220 ohm
R24	033-4731-15	1/10W 47k ohm
R28	033-6841-15	1/10W 680k ohm
R29	033-6841-15	1/10W 680k ohm
R30	033-1041-15	1/10W 100k ohm
R31	033-1031-15	1/10W 10k ohm
R32	033-1031-15	1/10W 10k ohm
R33	033-1031-15	1/10W 10k ohm
R34	033-6831-15	1/10W 68k ohm
R35	033-6831-15	1/10W 68k ohm
R36	033-3311-15	1/10W 330 ohm
R43	033-4731-15	1/10W 47k ohm
R44	033-4731-15	1/10W 47k ohm
R45	033-4731-15	1/10W 47k ohm
R101	033-1231-15	1/10W 12k ohm
R102	033-3321-15	1/10W 3.3k ohm
R103	033-3331-15	1/10W 33k ohm
R104	033-4731-15	1/10W 47k ohm
R105	033-4731-15	1/10W 47k ohm
R106	033-2211-15	1/10W 220 ohm
R107	033-2211-15	1/10W 220 ohm
R108	033-1021-15	1/10W 1k ohm
R109	033-1021-15	1/10W 1k ohm
R110	033-4731-15	1/10W 47k ohm
R115	033-0000-05	1/10W 0 ohm
R116	033-5621-15	1/10W 5.6k ohm
R117	033-4731-15	1/10W 47k ohm
R118	033-3341-15	1/10W 330k ohm
R119	033-2231-15	1/10W 22k ohm
R120	033-2231-15	1/10W 22k ohm
R121	117-1001-15	1/10W 10 ohm
R122	033-2211-15	1/10W 220 ohm
R123	117-6811-15	1/10W 680 ohm
R124	032-0162-50	1/10W 0.51 ohm
R126	033-1021-15	1/10W 1k ohm
R127	033-1021-15	1/10W 1k ohm
R130	033-1051-15	1/10W 1M ohm
TM101	073-0768-90	TERMINAL
X1	061-3534-90	16.92MHz
PWB	039-2429-21	PWB(WITHOUT COMPONENT)

LED PWB (B4) section: CD mechanism

REF No.	PART No.	DESCRIPTION
D11	001-7058-90	AN1105W-RR
D12	001-7058-90	AN1105W-RR
J4	074-1138-60	10P

REF No.	PART No.	DESCRIPTION
Q11	060-4015-90	PS1192H
Q12	060-4015-90	PS1192H
S1	013-7414-50	CHUCKING

REF No.	PART No.	DESCRIPTION
S2	013-7413-50	LIMIT
PWB	039-1944-21	PWB(WITHOUT COMPONENT)

PRINTED WIRING BOARD 1/3

Main PWB(B1) section 1/2

COMPONENT SIDE

Caution:
COMPONENT SIDE:
Parts on the component side seen from the component side are indicated.

Q	IC
	IC702
Q705	
Q308	
Q219	
Q215	
Q701 Q220	
Q205	
Q802 Q809	
Q801	
Q304	
Q804	
Q204	
Q807	
Q808	
Q214	IC951
Q810	
Q208 Q105 Q106	
Q201	
Q209	
Q202 Q110	
Q108	IC301
Q310	
Q309	
Q109	
	IC601
	IC102
	IC304
Q320	IC302
Q311	
	IC303
Q404	
Q405 Q401	
Q301	
Q402	
Q409	
Q312	
Q403	
Q407	

J801

No.	Description	No.	Description
A	A-ANT	K	S.R-G
B	ACC	L	S.R-1
C	AUX-ON	M	S-GND
D	AUX-L	N	AUX-R
E	RR+	O	RR-
F	RL+	P	RL-
G	FR+	Q	FR-
H	FL+	R	FL-
I	ILL+	S	N.C.
J	B/U	T	GND

13P
(Ce-NET)

J301

No.	Description
1	GND
2	B/U +14 V
3	L-ch (+)
4	N.C.
5	N.C.
6	BUS (+)
7	R-ch (+)
8	R-ch (-)
9	SYS-ACC
10	BUS (-)
11	L-ch (-)
12	ILL + 14 V
13	N.C

FLAT WIRE
816-2624-50

To J3 of CD PWB(B3)
(page 15)

To J902 of Switch PWB(B2)
(page 15)

To J901 of Switch PWB(B2)
(page 15)

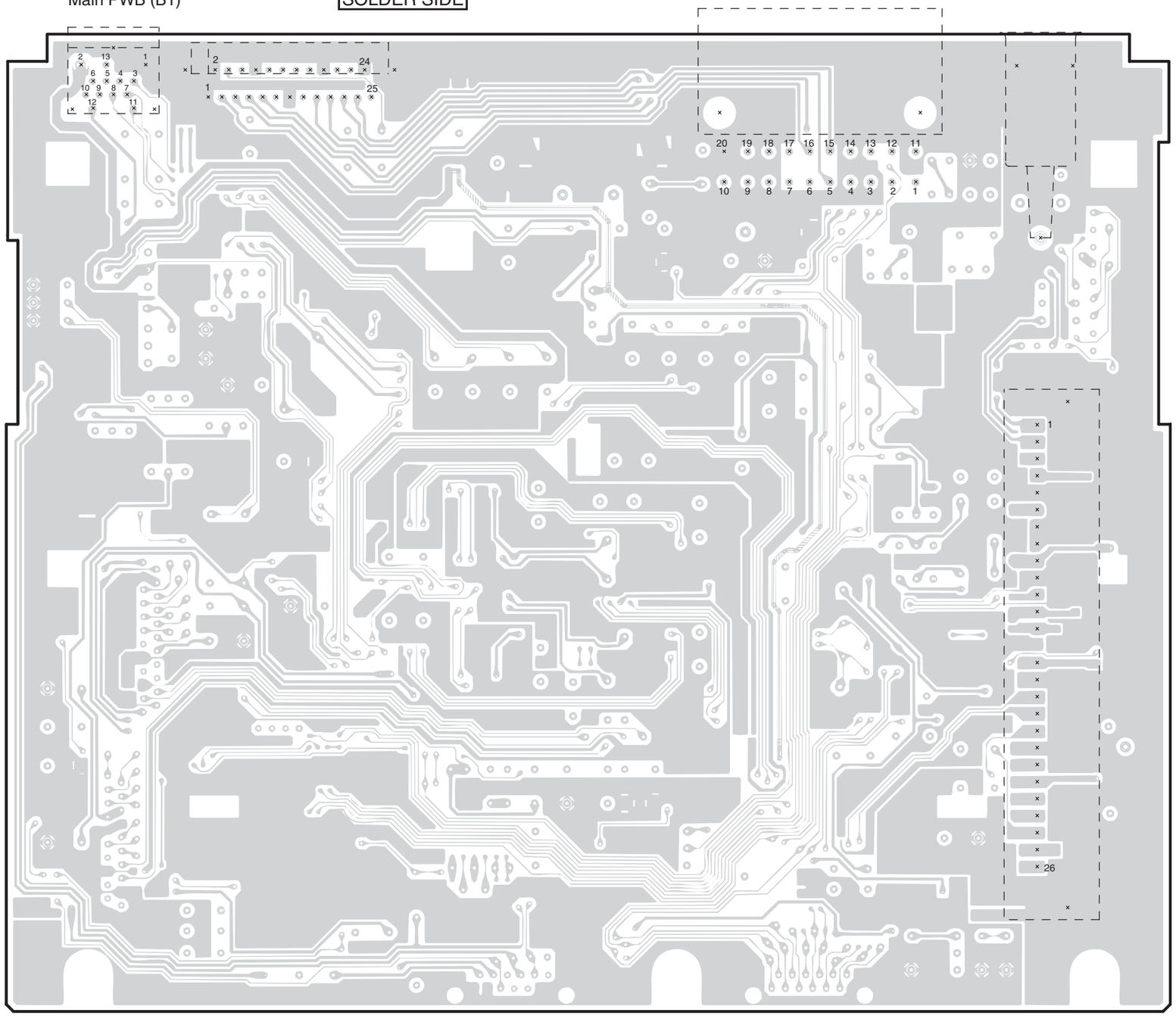
PRINTED WIRING BOARD 2/3

Main PWB (B1) section 2/2

Switch PWB (B2) section

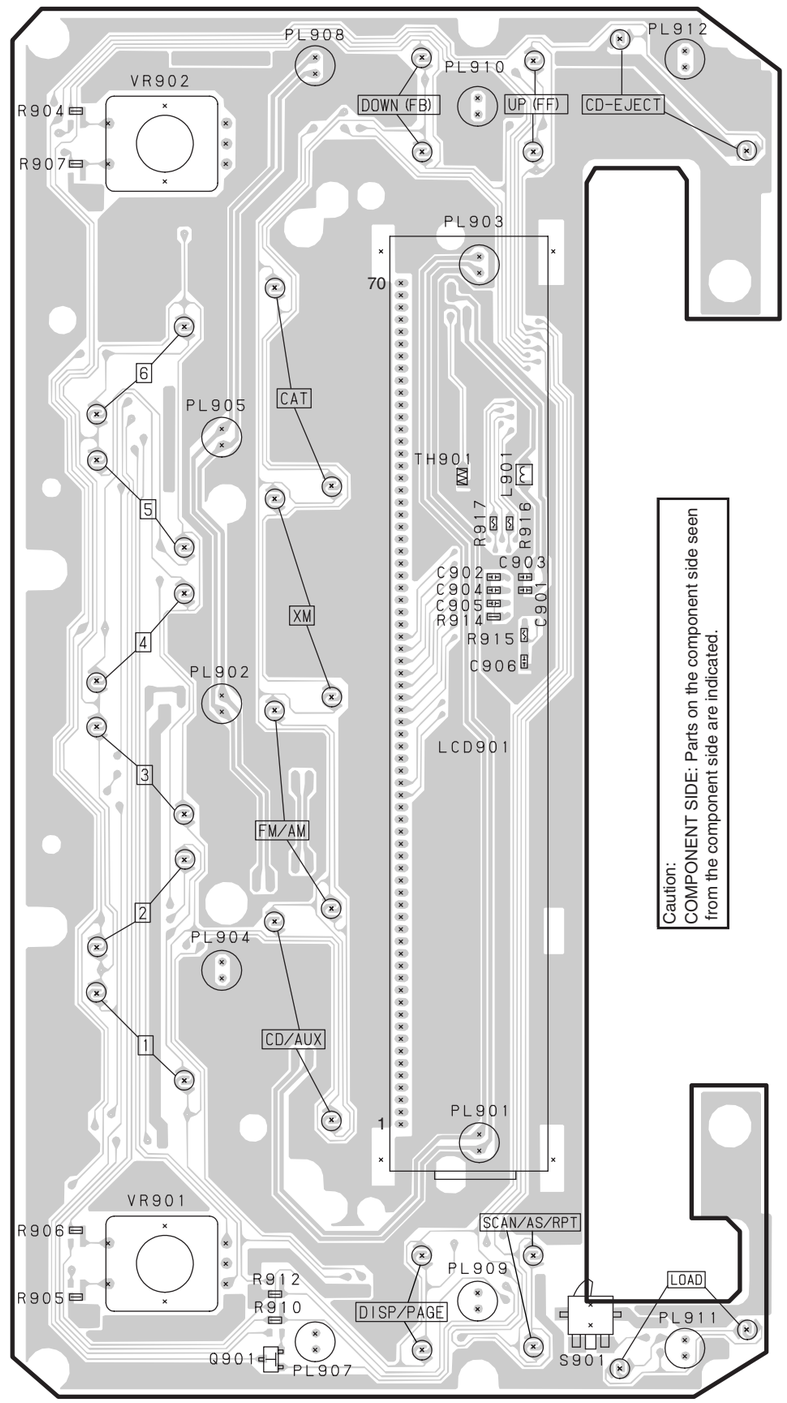
Q IC

Main PWB (B1) SOLDER SIDE



Caution:
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

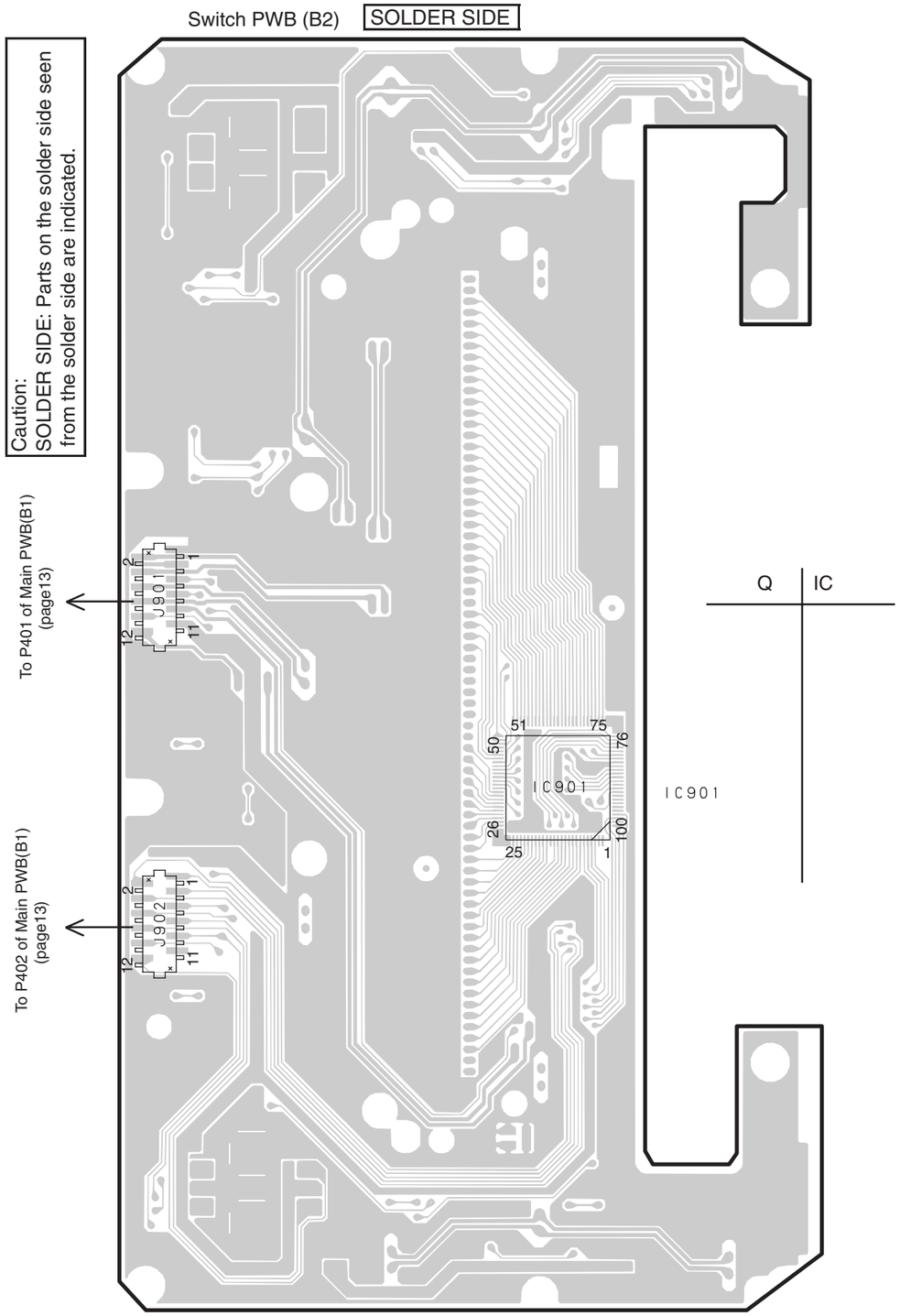
Switch PWB (B2) COMPONENT SIDE

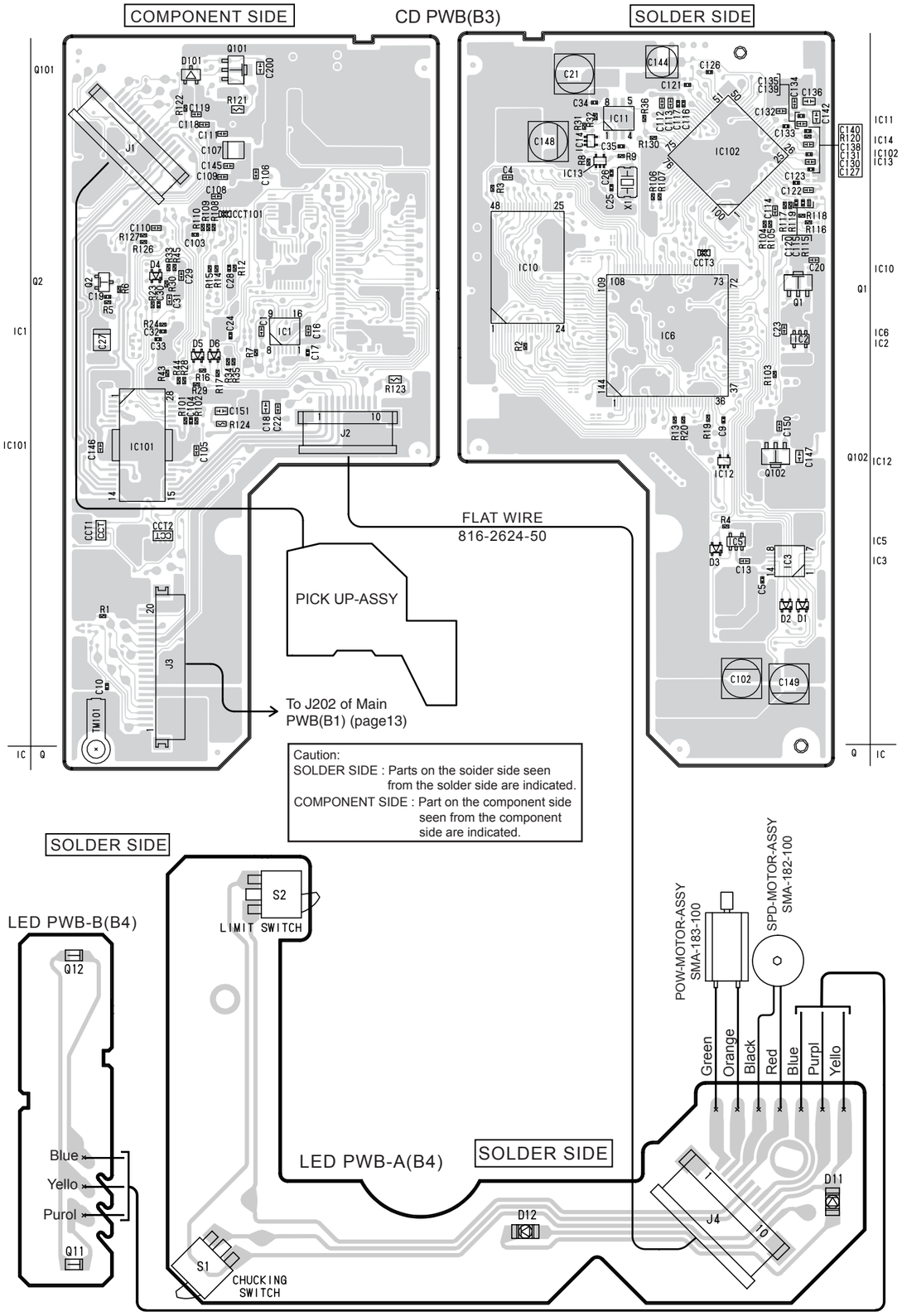


Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.

PRINTED WIRING BOARD 3/3

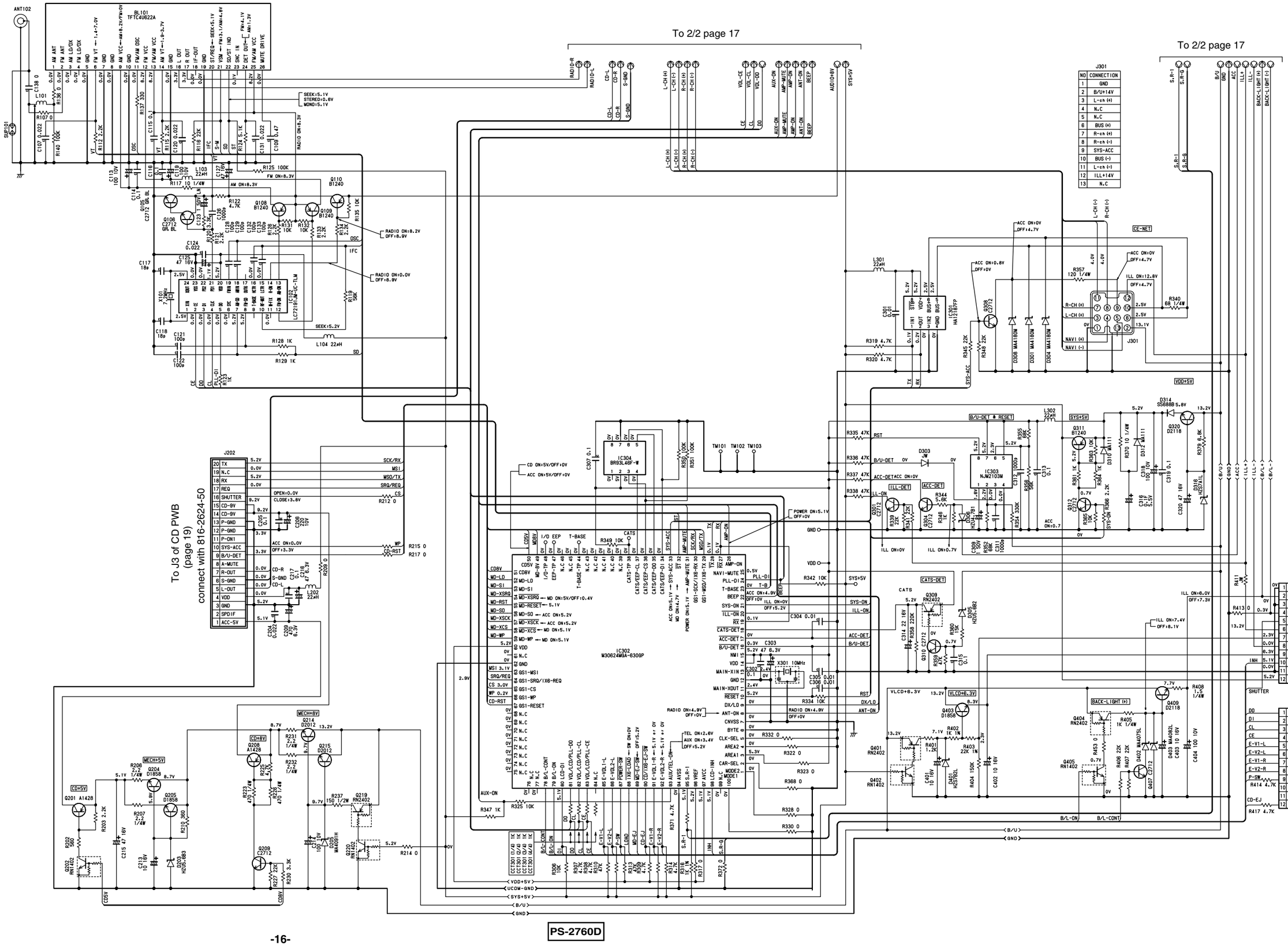
Switch PWB (B2) section (Solder Side)
CD PWB (B3) / LED PWB (B4) section CD MECHANISM





CIRCUIT DIAGRAM 1/5

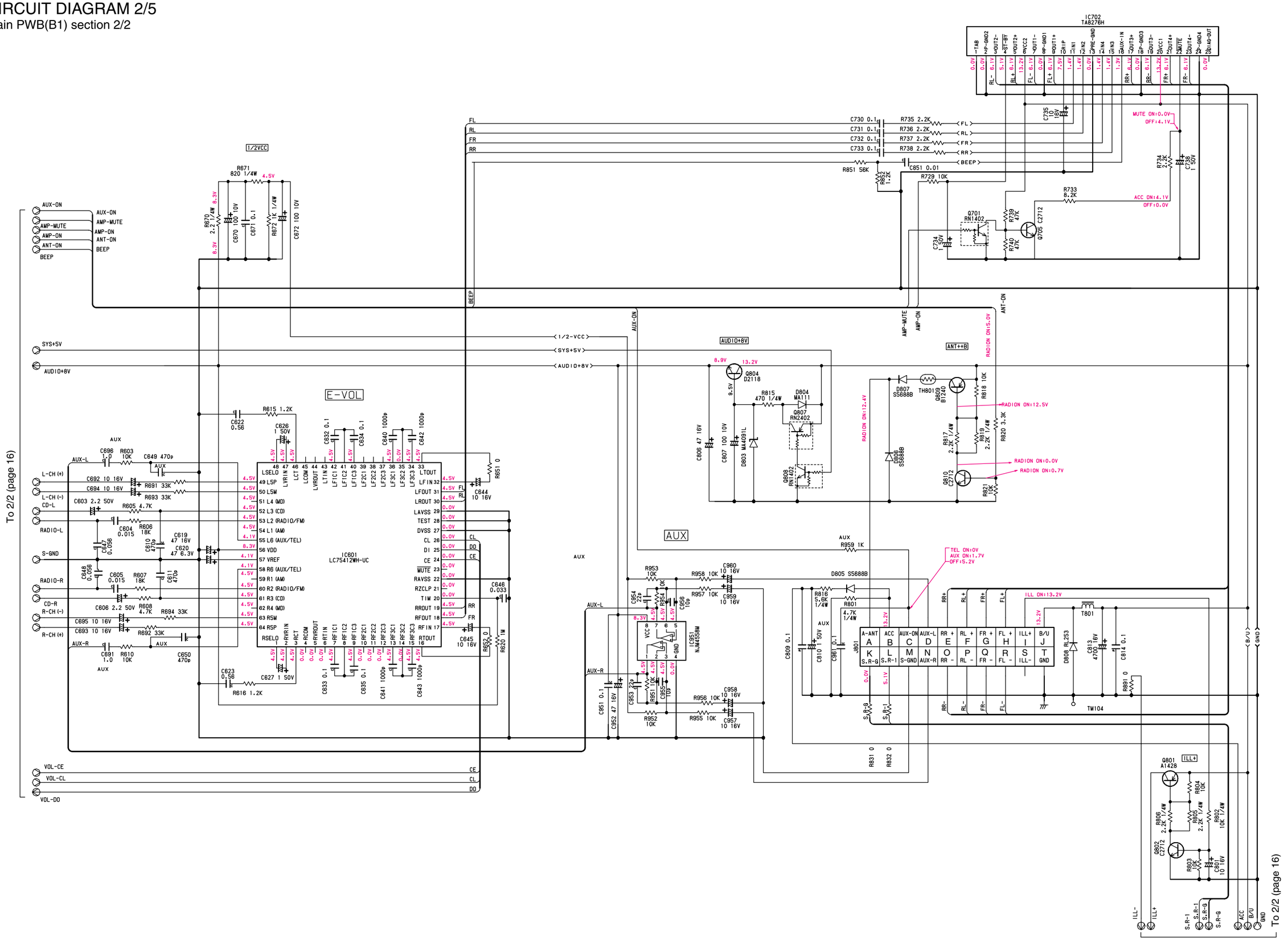
MAIN PWB(B1) section



J301	
NO	CONNECTION
1	GND
2	B/U+14V
3	L-ch (+)
4	N.C
5	N.C
6	BUS (+)
7	R-ch (+)
8	R-ch (-)
9	SYS-ACC
10	BUS (-)
11	L-ch (-)
12	ILL+14V
13	N.C

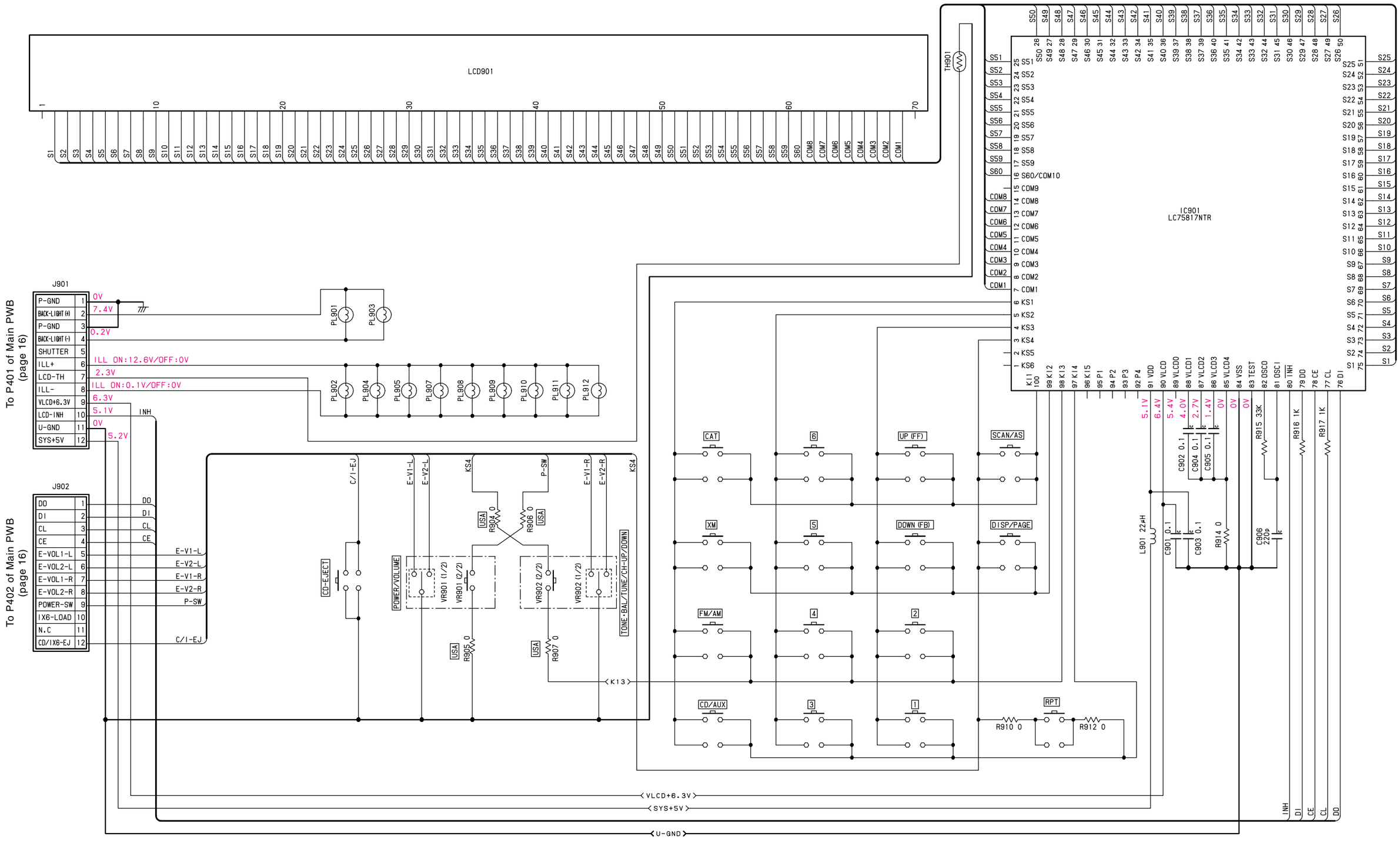
CIRCUIT DIAGRAM 2/5

Main PWB(B1) section 2/2



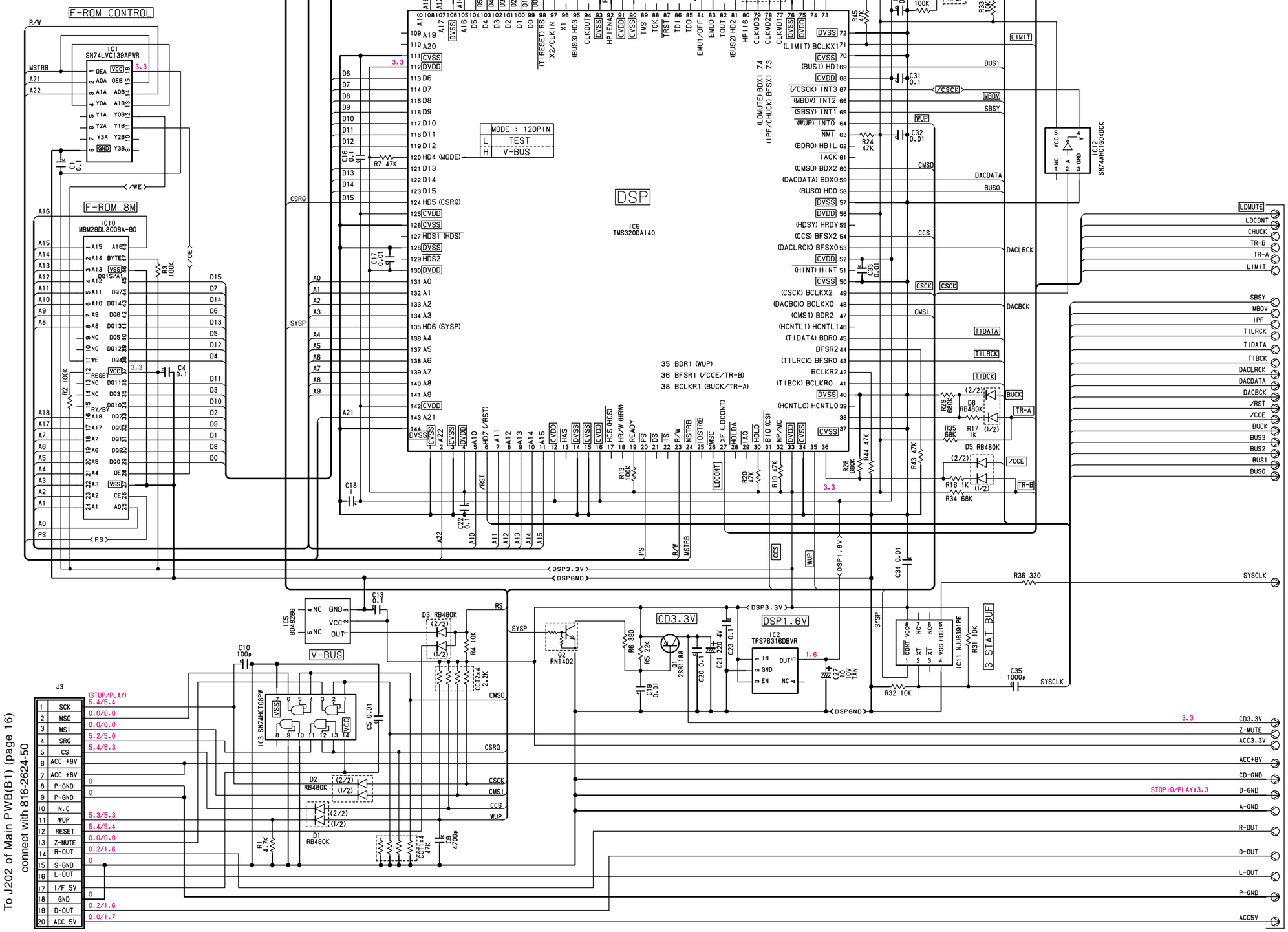
CIRCUIT DIAGRAM 3/5

Switch PWB(B2) section



CIRCUIT DIAGRAM 4/5

CD PWB(B3) section 1/2 CD MECHANISM



CIRCUIT DIAGRAM 5/5

CD PWB (B3) section 2/2

LED PWB(B4) section CD MECHANISM